

WHAT IS CLAIMED IS:

1. A method for coating at least a portion of at least one medical device, comprising:
directing an energy beam at a frozen target, the frozen target including an agent;
vaporizing at least a portion of the frozen target with the energy beam into a vapor; and
contacting the at least one medical device with the vapor.
2. The method of claim 1, wherein the target comprises at least one of a bioactive agent and a polymer.
3. The method of claim 2, further comprising dissolving the at least one of the at least one bioactive agent and the at least one polymer in a solvent to prepare a target solution, the target solution adapted to form the frozen target.
4. The method of claim 3, further comprising:
freezing the target solution to make the frozen target; and
mounting the frozen target on a refrigerated assembly.
5. The method of claim 4, wherein the refrigerated assembly is adapted to rotate.
6. The method of claim 3, further comprising:
enclosing the frozen target and the at least one medical device in a vacuum chamber; and
removing by a pump the solvent from the vacuum chamber after deposition of the agent on the at least one medical device.
7. The method of claim 1, further comprising directing a gas flow to transport the vapor to the at least one medical device.
8. The method of claim 1, wherein the energy beam is pulsed.
9. The method of claim 1, further comprising directing at least one of the energy beam and another energy beam at another frozen target, the other frozen target including

another agent, the at least one of the energy beam and the other energy beam vaporizing the other target into another vapor.

10. A device for coating at least one medical device, comprising:
 - a target assembly adapted to hold a frozen target, the frozen target including an agent;
 - an energy beam directed at the frozen target being held by the target assembly;
 - and
 - an arrangement adapted to hold the at least one medical device in a vapor cone, an apex of the vapor cone being at a target point that the energy beam contacts the frozen target.
11. The device of claim 10, further comprising a gas source adapted to transport the vaporized frozen target from the target assembly to the at least one medical device.
12. The device of claim 10, wherein the target assembly includes a refrigerated assembly.
13. The device of claim 12, wherein the refrigerated assembly is adapted to rotate.
14. The device of claim 10, further comprising a vacuum chamber adapted to enclose at least the target assembly and the arrangement adapted to hold the at least one medical device.
15. The device of claim 14, further comprising a pump coupled to the vacuum chamber and adapted to maintain one of a vacuum and a partial-vacuum in the vacuum chamber.
16. The device of claim 10, wherein the frozen target includes the agent dissolved in a solvent.
17. The device of claim 16, further comprising a pump adapted to remove the solvent from the vacuum chamber after deposition of the agent on the at least one medical device.

18. The device of claim 10, further comprising another energy beam directed at one of the target assembly and another target assembly, the other target assembly including another frozen target including another agent.
19. A medical device having a coating applied by a method, the method comprising:
 - directing an energy beam at a frozen target, the frozen target including an agent;
 - vaporizing at least a portion of the frozen target with the energy beam beam into a vapor; and
 - contacting the medical device with the vapor.
20. The medical device of claim 19, wherein the agent includes at least one of at least one bioactive agent and at least one polymer.
21. The medical device of claim 20, wherein the method further comprises dissolving the at least one of the at least one bioactive agent and the at least one polymer in a solvent to prepare a target solution, the target solution adapted to form the frozen target.
22. The medical device of claim 21, wherein the method further comprises:
 - freezing the target solution to make the frozen target; and
 - mounting the frozen target on a refrigerated assembly.
23. The medical device of claim 22, wherein the refrigerated assembly is adapted to rotate.
24. The medical device of claim 21, wherein the method further comprises:
 - enclosing the frozen target and the medical device in a vacuum chamber; and
 - removing by a pump the solvent from the vacuum chamber after deposition of the agent on the medical device.
25. The medical device of claim 19, wherein the method further comprises directing a gas flow to transport the vapor to the at least one medical device.
26. The medical device of claim 19, wherein the energy beam is pulsed.

27. The medical device of claim 19, wherein the method further comprises directing at least one of the energy beam beam and another energy beam beam at another frozen target, the other frozen target including another agent, the at least one of the energy beam beam and the other energy beam beam vaporizing the other target into another vapor.
28. The medical device of claim 19, wherein the coating includes a masking material.
29. The medical device of claim 19, wherein the coating is chosen from a group consisting of a polymer with a suspended drug, a non-thrombogenic agent, a lubricious material, a non-slippery material, a radioactive agent, a radiopaque agent, and a magnetic signature.